

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 969 660 A3

(12)

#### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 08.11.2000 Bulletin 2000/45

(51) Int Cl.7: H04N 5/335, H04N 5/217

(43) Date of publication A2: 05.01,2000 Bulletin 2000/01

(21) Application number: 99305287.7

(22) Date of filing: 02.07.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:

AL LT LV MK ROSI

(30) Priority: **03.07.1998 JP 20287598 29.10.1998 JP 32293098** 

(71) Applicant: CANON KABUSHIKI KAISHA Tokyo (JP) (72) Inventor: Kamei, Masafumi Ohta-ku, Tokyo (JP)

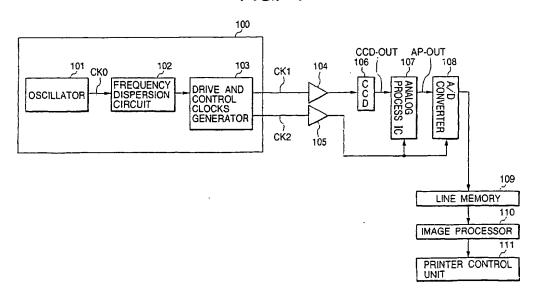
(74) Representative:
 Beresford, Keith Denis Lewis et al
 BERESFORD & Co.
 High Holborn
 2-5 Warwick Court
 London WC1R 5DJ (GB)

### (54) Clock control device used in image formation

(57) A clock control apparatus and method of an image forming apparatus, which oscillates a reference clock at predetermined periods, generates a clock signal having a frequency higher than a frequency of the reference clock using the reference clock to generate by using the reference clock, a clock signal having a fre-

quency higher than that of the reference clock, continuously changes the frequency of the clock signal at the predetermined periods with respect to the frequency of the reference clock, and generates a control clock using the clock signal, the frequency of which is continuously changed. The continuous change in frequency of the clock signal at a read timing of image data.

# FIG. 1





# **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 5287

	Citation of document with inc	RED TO BE RELEVANT	Relevant	CLASSIFICATION OF THE	
Category	Citation of document with ind of relevant passa	ges	to claim	APPLICATION (Int.C1.7)	
X	US 5 757 338 A (PIMI AL) 26 May 1998 (199	98-05-26)	4,9,14,	H04N5/335 H04N5/217	
A	* column 2, line 29 * column 6, line 22	- line 6/ " - line 39 *	1,5,7, 12,19,21		
X	US 5 631 920 A (HARI 20 May 1997 (1997-09 * column 2, line 64	 DIN KEITH B) 5-20) - column 3, line 20 *	4,9,14,		
Α	EP 0 752 784 A (KON 8 January 1997 (199 * column 2, line 32	7-01-08)	1,7		
				TECHNICAL FIELDS	
				SEARCHED (Int.CI.7)	
		boon drawn up for all claims	-		
	The present search report has	Date of completion of the search		Examiner	
	Place of search	20 September 20	00   Be	quet, T	
X.pa Y:pa	THE HAGUE  CATEGORY OF CITED DOCUMENTS  ricularly relevant if taken alone ricularly relevant if combined with anot	T : theory or princip E : earlier patent d after the filling d ber D : document cited	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L; document cited for other reasons		
dox A:ted O:nd	cument of the same category phnological background on-written disclosure ermediate document	L , document cited		***************************************	

### EP 0 969 660 A3

### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 5287

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-09-2000

Patent document cited in search repo		Publication date		Patent family member(s)	Publication date
US 5757338	Α	26-05-1998	US US US	6046735 A 6057809 A 5943382 A	04-04-2000 02-05-2000 24-08-1999
US 5631920	A	20-05-1997	US EP JP US US AU AU CA EP JP	5488627 A 0739089 A 9098152 A 5872807 A 5867524 A 676355 B 7282194 A 2131567 A 0655829 A 7235862 A	30-01-1996 23-10-1996 08-04-1997 16-02-1999 02-02-1997 06-03-1997 15-06-1995 30-05-1995 05-09-1995
EP 0752784	A	08-01-1997	JP JP US	9023317 A 9046477 A 5963344 A	21-01-1997 14-02-1997 05-10-1999
			US 	5963344 A	05-10-199

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

This Page Blank (uspto)